

Riverhead Foundation for Marine Research and Preservation
Summary of marine mammal and sea turtle stranding summary for 2008
Robert DiGiovanni Jr.
Contract number: C006380
January 1, 2008 through December 31, 2008

The Riverhead Foundation for Marine Research and Preservation (RFMRP) is a member of the Northeast Region Stranding Network and operates the New York State Marine Mammal and Sea Turtle Rescue Program. As the RFMRP is the only rescue organization in New York State (NYS), it responds to all stranded marine mammals and sea turtles within this region (Figure 1.0). The RFMRP is responsible for approximately 1,850 miles of coastline (Shore and Sea Boundaries, Vol II, 1964) including Suffolk, Nassau, Queens, Kings, Rockland, Manhattan, Richmond, Westchester, Dutchess, Orange, Putnam, Ulster, Columbia and Greene counties which services a population of over 13 million (U.S. Census Bureau, 2006). The RFMRP is housed at the Atlantis Marine World Aquarium (AMW) located in Riverhead, New York (Figure 2.0 and 3.0). The facility at AMW affords the RFMRP and opportunity to educate over 400,000 visitors about the marine environment annually.

The RFMRP has operated the rescue program since in 1996 when the previous organization discontinued operation of the rescue program. The rescue program relies on the public, state and local officials (marine patrols, the United States Coast Guard and local police) to report sick, injured, or dead animals. To report these strandings the RFMRP maintains a 24-hour Rescue Hotline, 631-369-9829, and distributes this number to local officials and the public in the form of laminated sighting cards and brochures.

Over the last three decades strandings have gone from a rare occurrence to over 250 animal recoveries a year. In addition to these changes the number of healthy animal sightings has increased on our local beaches and from dedicated marine mammal and sea turtle surveys.

Figure 1.0. Response area covered by RFMRP

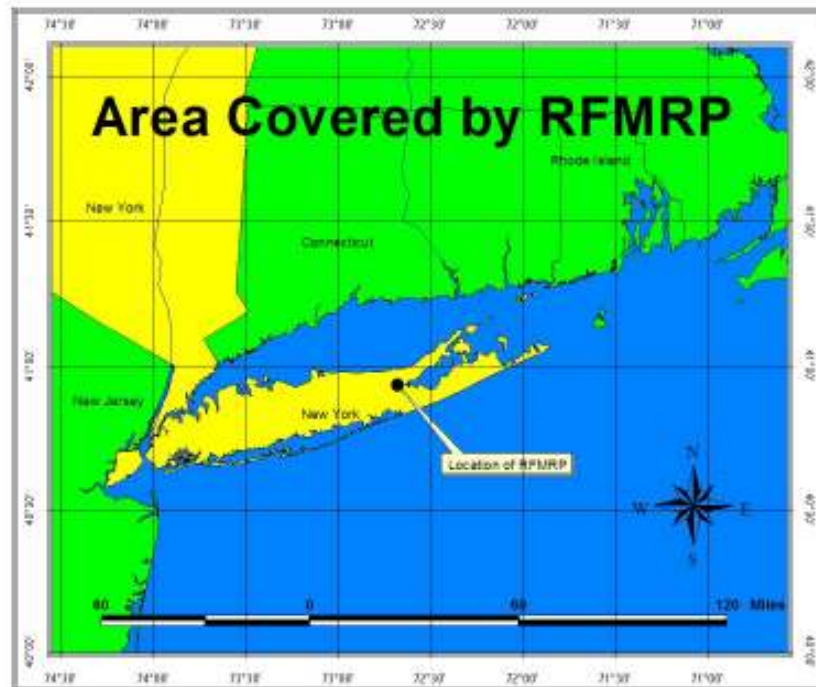
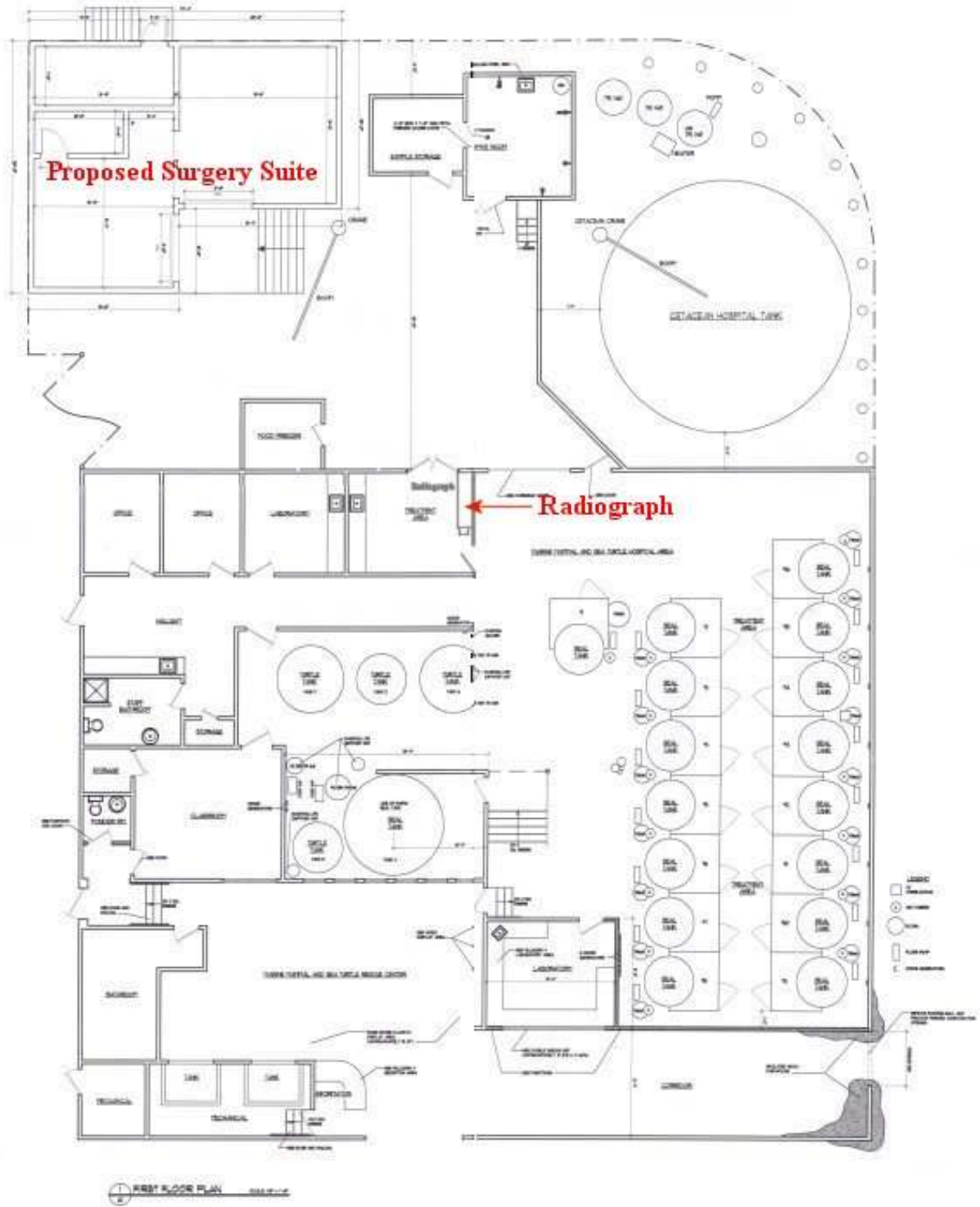


Figure 2.0. RFMRP facility located at Atlantis Marine World Aquarium



Figure 3.0. Riverhead Foundation facility plan.



Financial report

During the time covered by this report the operation of the New York State Marine Mammal and Sea Turtle Rescue Program cost \$858,000. This does not account for the \$168,000 in facility space donated by the AMW. Although these expenses represent all operations of the RFMRP, it is important to note that additional programs such as education and outreach (3%), fundraising (6%), and conference attendance and marketing (2%) only account for 11% of the total budget. These programs account for over 30% of the income received. The primary sources of the RFMRP funding are grants (\$498,000 or 56%), fundraisers (\$186,000 or 21%), donations and education (\$138,000 or 15%). Although fundraising is not generally accepted as a marine mammal and sea turtle program expense, it only represents 6% of the budgeted expense, but accounts for 21% of the RFMRP's income. The major benefit of fundraising income is that it supports the general operations and does not require the overly-taxed staff to perform any additional work. In contrast, grants are the largest proportion of the RFMRP's income, and require more work and investment of resources. This is significant, as few grants exist for general operations. The rising costs of general operations (i.e. insurance and electric 20% increase in the last year), coupled with facility upgrades, are the focus of the RFMRP's efforts so a continued operational response can be maintained. More effort is needed to generate operational support for items such as insurance and electric costs. It is important to note that as utility and insurance process increase the fixed cost of operation are increasing. Couple this with the increase in animal response and the financial burden is problematic. The RFMRP has addressed these challenges through the streamlining of programs and cross training staff while training a large volunteer base.

During the 2008 calendar year the Riverhead Foundation recovered and treated 210 animals. Pinniped strandings accounted for 47% (n=98) of the RFMRP responses, while sea turtles represented 34% (n=72) of animals recovered. Cetaceans represented 19% (n=40) of all the animals recovered.

Pinnipeds

Pinniped strandings were on par for 2008. The RFMRP recovered 98 seals from January through December 2008 (Table 1.0, Figure 4.0 and 7.0). Of the 98 seals, which stranded, 57 (58%) were alive and 33 (58%) were released. We relocated an additional nine (16%) animals during this time period.

- 29 Harp seals (*P. groenlandicus*)
- 33 Gray seals (*H. grypus*)
- 33 Harbor seals (*P. vitulina*)
- 1 Hooded seal (*C. cristata*)
- 2 unidentified

The mean standard length for gray seals (*H. grypus*) was 98.1 cm (min=81.3 cm, max=105.9 cm) and the mean weight was 19.1 kg (min=12.7 kg, max=27.8 kg). The mean standard length for harp seals (*P. groenlandicus*) was 106.2 cm (min=76.6 cm, max=116.2 cm) and the mean weight was 24.1 kg (min=8.1 kg, max=39.5). The mean

standard length of harbor seals was 108.3 cm (min=77.0 cm, max=162.0 cm) and the mean weight was 33.7 kg (min=6.4 kg, max=95.0 kg).

Sea turtles

The RFMRP recovered a total of 72 sea turtles by the program from January through December 2008 (Table 2.0, Figure 5.0 and 8.0).

- 30 Loggerhead sea turtles (*C. caretta*)
- 17 Kemp's ridley sea turtles (*L. kempii*)
- 17 Leatherback sea turtles (*D. coriacea*)
- 7 Atlantic green sea turtle (*C. mydas*)
- 1 Unknown species

The mean straight standard carapace length for loggerhead sea turtles (*C. caretta*) was 61.4 cm (min=43.4 cm, max=85.5 cm); the mean straight carapace length for Atlantic green sea turtles (*C. mydas*) was 31.3 cm (min=27.2 cm, max=37.5 cm); the mean straight carapace length of the leatherback sea turtles (*D. coriacea*) was 141.0 cm (min=113.0 cm, max=158.0 cm) and the mean straight carapace length for Kemp's ridley sea turtles (*L. kempii*) was 23.6 cm (min=19.2 cm, max=32.4 cm).

Cetaceans

We recovered a total of 40 cetaceans by the program for the from January through December 2008 (Table 3.0, Figure 6.0 and 9.0)

- 11 Harbor porpoise (*P. phocoena*)
- 8 Common dolphins (*D. delphinus*)
- 7 Bottlenose dolphins (*T. truncatus*)
- 5 Pilot whales (*G. melas*)
- 2 White sided dolphins (*L. acutus*)
- 2 Striped dolphins (*S. coeruleoalba*)
- 1 Spotted dolphin (*S. frontalis*)
- 1 Beaked whale (*M. mirus*)
- 3 Unidentified

The mean standard length for common dolphins (*D. delphis*) was 211.8 cm (min=201.0 cm, max=233.0 cm); the mean standard length for pilot whales (*G. melas*) was 290.5 cm (min=193.0 cm, max=405.0 cm); the mean standard length of the harbor porpoise (*P. phocoena*) was 124.4 cm (min=111.0 cm, max=162.0 cm) and the mean standard length for the bottlenose dolphins (*T. truncatus*) was 246.6 cm (min=197.0 cm, max=293.0 cm).

Table 1.0 Seal stranding for 2008

2008	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals	% TOTAL
Harp	3	5	11	8	1	1	0	0	0	0	0	0	29	30%
Harbor	6	2	3	7	4	0	0	0	2	1	4	4	33	34%
Hooded	0	0	1	0	0	0	0	0	0	0	0	0	1	1%
Gray	0	4	11	12	2	2	2	0	0	0	0	0	33	34%
Ringed	0	0	0	0	0	0	0	0	0	0	0	0	0	0%
Unknown	0	1	0	0	0	1	0	0	0	0	0	0	2	2%
Total	9	12	26	27	7	4	2	0	2	1	4	4	98	Total
	9%	12%	27%	28%	7%	4%	2%	0%	2%	1%	4%	4%		
# Came in Alive	5	10	16	12	2	3	2	0	2	0	4	1	57	# Came in Alive
% Alive	56%	83%	62%	44%	29%	75%	100%	0%	100%	0%	100%	25%	58%	% Alive
# Died	2	2	3	1	1	2	0	0	0	0	1	0	12	# Died
% Died	40%	20%	19%	8%	50%	67%	0%	0%	0%	0%	25%	0%	21%	% Died
# in-house	0	0	0	0	0	0	0	0	0	0	3	1	3	# in-house
% in-house	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	75%	100%	5%	% in-house
# Released	3	8	9	8	0	1	2	0	2	0	0	0	33	# Released
% Released	60%	80%	56%	67%	0%	33%	100%	0%	100%	0%	0%	0%	58%	% Released
Relocate	0	0	4	3	1	0	0	0	1	0	0	0	9	Relocate
% Relocate	0%	0%	25%	25%	50%	0%	0%	0%	50%	0%	0%	0%	16%	% Relocate
Harp Relocate	0	0	1	1	0	0	0	0	0	0	0	0	2	22%
Harbor Relocate	0	0	0	0	0	0	0	0	1	0	0	0	1	11%
Hooded Relocate	0	0	0	0	0	0	0	0	0	0	0	0	0	0%
Gray Relocate	0	0	3	2	1	0	0	0	0	0	0	0	6	67%
Total Relocate	0	0	4	3	1	0	0	0	1	0	0	0	9	Total

animal	1 animal relocated twice, but only accounted for once
restranded dead	Unid on 062108
in April	animal restranded DOB, tag return from 2006

Table 2.0 Sea Turtle stranding for 2008

2008	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total	%
Loggerhead	1	0	0	0	0	2	16	4	3	0	0	4	30	42%
Leatherback	0	0	1	0	0	0	0	10	4	0	0	2	17	24%
Ridley	1	0	0	0	0	0	7	2	1	1	4	1	17	24%
Green	0	0	0	0	0	0	0	0	0	1	3	3	7	10%
Unknown	0	0	0	0	0	0	0	1	0	0	0	0	1	1%
Hybrid	0	0	0	0	0	0	0	0	0	0	0	0	0	0%
Sea Turtles n=72	2	0	1	0	0	2	23	17	8	2	7	10	72	
% by Month	3%	0%	1%	0%	0%	3%	32%	24%	11%	3%	10%	14%		

Table 3.0 Cetacean Strandings for 2008

2008	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total	% by species
Common dolphin	0	0	1	0	0	2	0	0	1	0	2	2	8	20%
Pilot whale	0	0	0	3	2	0	0	0	0	0	0	0	5	13%
White sided	0	0	1	0	1	0	0	0	0	0	0	0	2	5%
Harbor porpoise	0	2	3	4	1	0	0	0	0	0	0	1	11	28%
Striped dolphin	0	0	0	0	0	0	0	0	0	1	0	1	2	5%
Bottlenose dolphin	0	0	2	1	1	0	2	1	0	0	0	0	7	18%
Spotted dolphin	0	0	0	0	0	0	1	0	0	0	0	0	1	3%
True's beaked whale	0	0	0	0	0	0	1	0	0	0	0	0	1	3%
unden	1	0	0	2	0	0	0	0	0	0	0	0	3	8%
Cetaceans n=40	1	2	7	10	5	2	4	1	1	1	2	4	40	

Figure 4.0

Seal Strandings 1980 through 2008

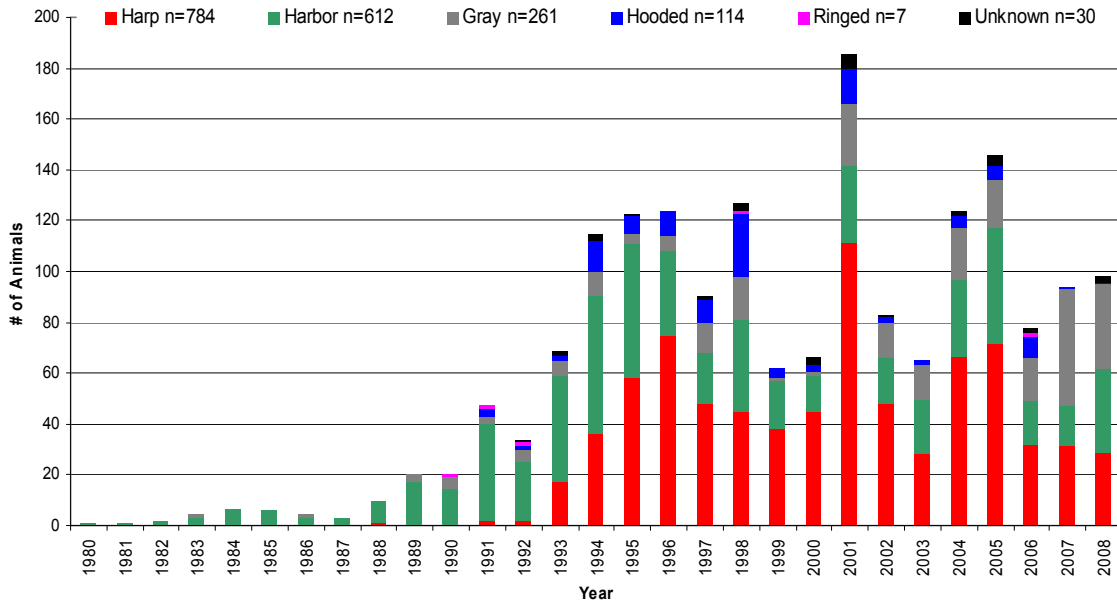


Figure 5.0

Sea Turtle Strandings 1980 through 2008

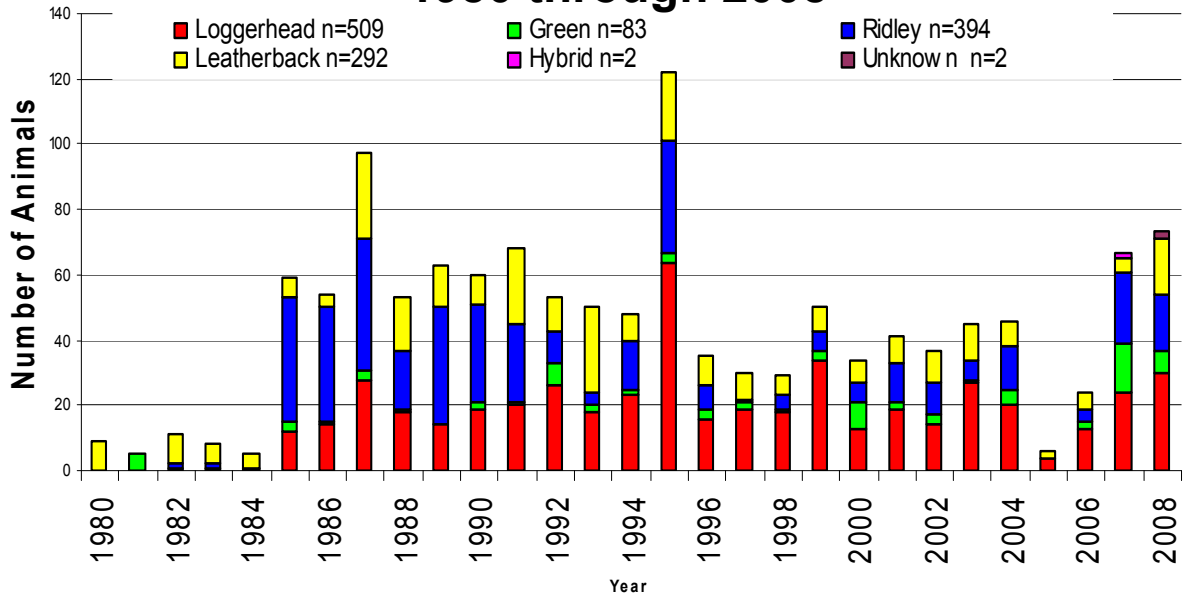


Figure 6.0

Cetacean Strandings 1980 through 2008

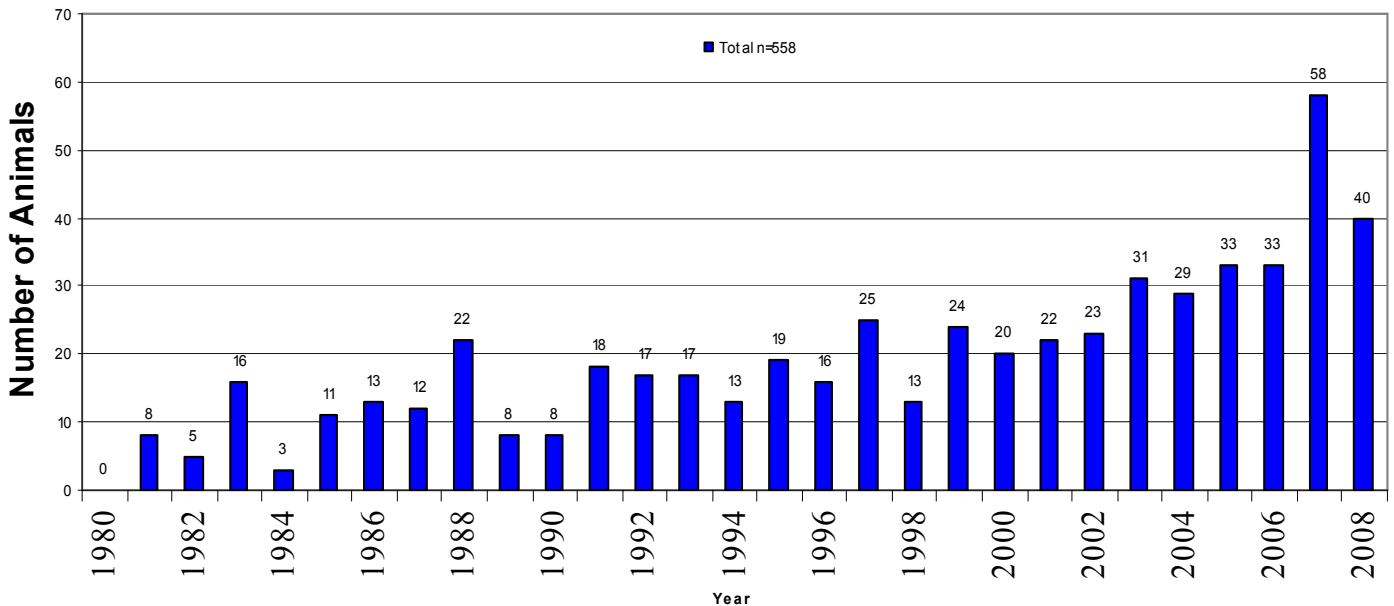


Figure 7.0. Distribution of pinniped strandings for the period of January through December 2008.

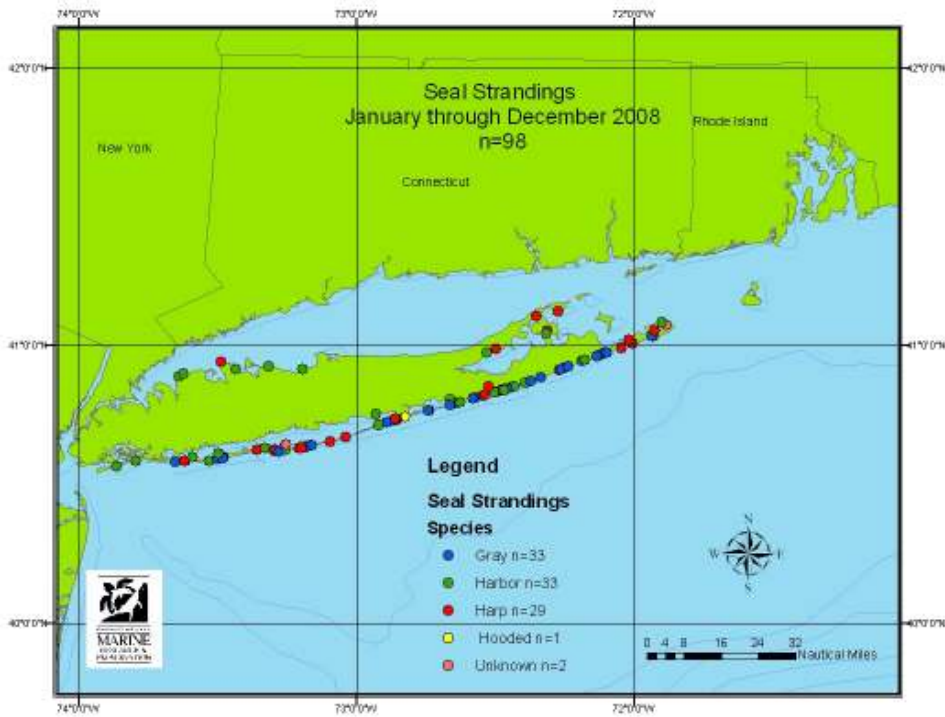


Figure 8.0. Distribution of sea turtle strandings for the period of January through December 2008.

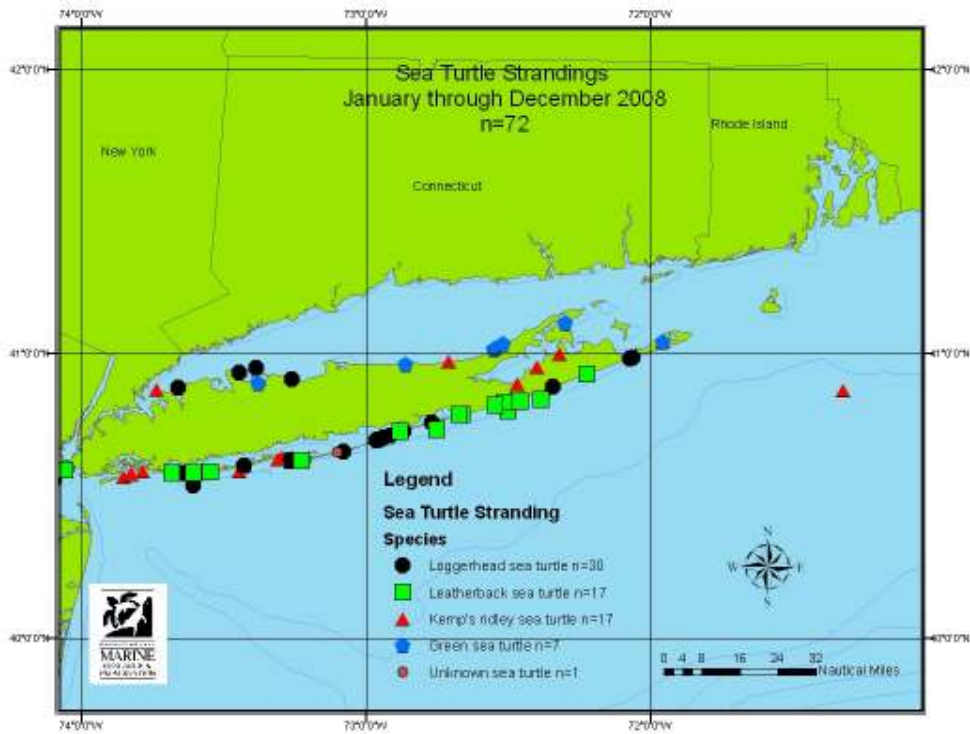
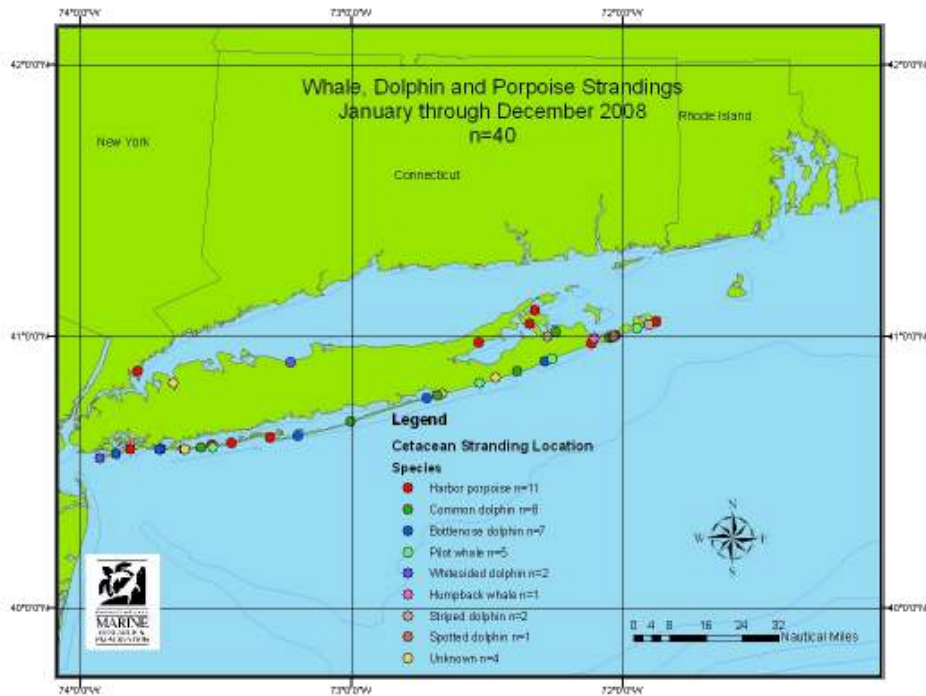


Figure 9.0. Distribution of the cetacean strandings for the period January through December 2008.



Post release tracking

The RFMRP has released 18 animals equipped with satellite tags in 2008 (two of the animals were released in 2009 but rescued in 2008) (Table 4.0 and Figure 10.0). Eleven of the animals were pinnipeds: seven gray seals, *H. grypus* (Figure 11.0) and four harbor seals, *P. vitulina* (Figure 12.0). Seven of these animals were sea turtles: four Atlantic green, *C. mydas* (Figure 13.0) and three Kemp's ridley, *L. kempii* (Figure 14.0). A total of nine SPLASH tags, seven SPOT tags and two Mk10-AF GPS tags were deployed.

Figure 10.0. AJ, a juvenile gray seal (*H. grypus*) released with a Mk10-AF tag.



Table 4.0. Summary of animals rescued and/or released in 2008 with satellite transmitters.

ID #	Type	Animal Name	Animal ID	Sp	Sex	Animal	Date Strand	Date Released	Flipper Tag
86311	SPLASH	Huey	NY3774-07	Cm	unk	Sea Turtle	11/24/2007	9/13/2008	
86312	SPLASH	Anette	NY3775-07	Cm	unk	Sea Turtle	11/24/2007	9/30/2008	
62155	SPOT-5	Sarge	NY3776-07	Cm	unk	Sea Turtle	11/24/2007	9/17/2008	
87872	SPLASH	Louie	NY3777-07	Cm	unk	Sea Turtle	11/24/2007	8/16/2008	
86314	SPLASH	Zippy	NY3751-07	Lk	unk	Sea Turtle	8/16/2007	8/26/2008	
87873	SPLASH	Anna	NY3786-07	Lk	unk	Sea Turtle	12/5/2007	9/20/2008	
86313	SPLASH	Digit	NY3795-07	Lk	unk	Sea Turtle	12/15/2007	9/10/2008	
36143	SPOT-5	Cindy	NY3816-08	Hg	F	Seal	2/6/2008	5/3/2008	783
36142	SPOT-5	Fuzzy	NY3828-08	Hg	M	Seal	2/29/2008	4/5/2008	769
39392	SPOT-5		NY3837-08	Hg	M	Seal	3/12/2008	4/15/2008	776
73232	Mk10-AF	AJ	NY3864-08	Hg	M	Seal	4/4/2008	5/17/2008	784
86305	SPOT-5	Hazel	NY3869-08	Hg	F	Seal	4/7/2008	7/12/2008	794
39229	SPLASH	Lily	NY3870-08	Hg	F	Seal	4/7/2008	6/7/2008	785
86308	SPOT-5	Timbo	NY3923-08	Hg	M	Seal	7/11/2008	9/18/2008	797
34348	SPOT-5	Venkman	NY3803-08	Pv	M	Seal	1/2/2008	3/22/2008	764
55367	SPLASH	Slimer	NY3804-08	Pv	F	Seal	1/5/2008	3/13/2008	791
86304	Mk10-AF	Cinnamon	NY3981-08	Pv	F	Seal	11/7/2008	2/7/2009	804
89728	SPLASH	Cocoa	NY3985-08	Pv	F	Seal	11/26/2008	1/31/2009	802

Figure 11.0. Post release tracks of gray seals (*H. grypus*)



Figure 12.0. Post release tracks of harbor seals (*P. vitulina*)



Figure 13.0. Post release tracks of Atlantic green sea turtles (*C. mydas*)



Figure 14.0. Post release tracks of Kemp's ridley sea turtles (*L. kempii*)



Appendix 1.0. Pinniped summary for January through December 2008.

ID	SP	SEX	AGE	DATE	LAT	LONG	COND	DISP	ILENGTH	IWT	NECR_DT	REDATE	TAGNO
NY337405	<i>Halichoerus grypus</i>	F	YE	4/23/2008			Alive	Released					883
NY380308	<i>Phoca vitulina</i>	M	YE	1/2/2008	40.86810	-72.39230	Alive	Captive then Released	92.0	18.90		3/22/2008	764
NY380408	<i>Phoca vitulina</i>	F	YE	1/5/2008	40.84380	-72.47290	Alive	Captive then Released	83.2	16.30		3/13/2008	791
NY380508	<i>Phoca vitulina</i>	M	AD	1/8/2008	40.91560	-73.19640	Moderately Decomposed	RFMRP	159.0	84.70	1/11/2008		
NY380808	<i>Pagophilus groenlandicus</i>	M	YE	1/21/2008	41.05370	-72.31390	Alive - Died in Captivity	RFMRP	108.7	26.50	1/23/2008		
NY380908	<i>Phoca vitulina</i>	F	YE	1/24/2008	40.63653	-73.18573	Fresh Dead	RFMRP	90.3	19.10			
NY381008	<i>Phoca vitulina</i>	M	YE	1/26/2008	40.84358	-72.47299	Alive	Captive then Released	96.7	20.10		3/29/2008	767
NY381208	<i>Phoca vitulina</i>	M	YE	1/30/2008	40.88880	-73.64310	Fresh Dead	RFMRP	109.3	27.30	2/2/2008		
NY381308	<i>Pagophilus groenlandicus</i>	F	YE	1/31/2008	40.79330	-72.64410	Alive - Died in Captivity	RFMRP	114.6	25.10	1/31/2008		
NY381408	<i>Pagophilus groenlandicus</i>	M	YE	1/31/2008	40.65660	-73.09750	Fresh Dead	RFMRP	104.7	28.40	2/1/2008		
NY381508	<i>Pagophilus groenlandicus</i>	M	YE	2/1/2008	40.92270	-72.24950	Alive	Captive then Released	111.2	24.80		3/22/2008	765
NY381608	<i>Halichoerus grypus</i>	F	PU	2/6/2008	40.83740	-72.48880	Alive	Captive then Released	81.3	12.70		5/2/2008	783
NY381708	<i>Pagophilus groenlandicus</i>	F	YE	2/6/2008	40.85280	-72.43810	Alive	Captive then Released	105.3	21.80		4/4/2008	768
NY381908	<i>Pagophilus groenlandicus</i>	F	YE	2/12/2008	40.96670	-72.12950	Alive	Captive then Released	112.0	27.40		3/27/2008	766
NY382008	<i>Phoca vitulina</i>	M	YE	2/15/2008	40.62580	-73.25960	Alive	Captive then Released	102.8	23.90		4/5/2008	772
NY382108	<i>Phoca vitulina</i>	F	YE	2/16/2008	40.85400	-72.43390	Alive	Captive then Released	92.8	17.60		4/7/2008	770
NY382208	<i>Pagophilus groenlandicus</i>	M	YE	2/16/2008	40.59350	-72.04880	Alive - Died in Captivity	RFMRP	104.5	22.60	2/21/2008		
NY382308	<i>Pagophilus groenlandicus</i>	M	YE	2/18/2008	40.85520	-72.27040	Skeleton	RFMRP	108.0				
NY382408	<i>Halichoerus grypus</i>	M	PU	2/20/2008	40.97320	-72.11180	Alive - Died in Captivity	RFMRP	98.6	20.30	2/25/2008		
NY382508	Unknown	U	U	2/25/2008	41.07599	-71.88392	Skeleton	RFMRP					
NY382708	<i>Halichoerus grypus</i>	M	PU	2/28/2008	40.73083	-72.87013	Alive	Captive then Released	98.5	16.40		4/15/2008	777
NY382808	<i>Halichoerus grypus</i>	M	PU	2/29/2008	40.18562	-74.00890	Alive	Captive then Released	96.5	15.10		4/5/2008	769
NY383008	<i>Phoca vitulina</i>	M	YE	3/4/2008	40.63920	-73.17740	Moderately Decomposed	RFMRP	145.0	69.80	3/19/2008		
NY383108	<i>Pagophilus groenlandicus</i>	M	YE	3/7/2008	41.00840	-72.00780	Fresh Dead	RFMRP	108.2	32.30	3/12/2008		
NY383208	<i>Halichoerus grypus</i>	U	PU	3/9/2008	40.94570	-72.18840	Alive	Captive then Released	107.5	27.00	3/14/2008		3/9/2008
NY383408	<i>Pagophilus groenlandicus</i>	M	YE	3/9/2008	41.02150	-72.02190	Alive - Died in Captivity	RFMRP					
NY383608	<i>Pagophilus groenlandicus</i>	F	YE	3/11/2008	40.63074	-73.21113	Alive	Captive then Released	102.3	23.00		8/16/2008	795
NY383707	<i>Halichoerus grypus</i>	M	PU	3/12/2008	40.91580	-72.26590	Alive	Captive then Released	93.7	15.20		4/15/2008	776
NY383808	<i>Pagophilus groenlandicus</i>	F	YE	3/13/2008	40.60070	-73.48120	Fresh Dead	RFMRP	107.2	24.40	3/17/2008		
NY383908	<i>Halichoerus grypus</i>	M	PU	3/13/2008	40.97530	-72.10580	Alive	Captive then Released	96.2	15.00		4/26/2008	781
NY384008	<i>Pagophilus groenlandicus</i>	F	YE	3/13/2008	40.63350	-73.20050	Alive	Captive then Released	113.0	23.50	5/30/2008	3/13/2008	762
NY384108	<i>Pagophilus groenlandicus</i>	M	YE	4/18/2008	40.85520	-72.52590	Moderately Decomposed	RFMRP	110.2	23.50	5/30/2008		762
NY384108	<i>Cystophora cristata</i>	M	YE	3/15/2008	40.74430	-72.82860	Fresh Dead	RFMRP	106.0	28.90	3/15/2008		
NY384208	<i>Pagophilus groenlandicus</i>	F	YE	3/17/2008	40.81310	-72.57510	Alive	Captive then Released	109.5	27.20		4/12/2008	775
NY384408	<i>Halichoerus grypus</i>	M	PU	3/18/2008	40.58653	-73.61857	Alive - Died in Captivity	RFMRP	95.7	19.00	3/22/2008		
NY384508	<i>Pagophilus groenlandicus</i>	M	YE	2/18/2008	40.98201	-72.49860	Fresh Dead	RFMRP	110.2	39.50	5/19/2008		
NY384608	<i>Halichoerus grypus</i>	F	PU	3/19/2008	40.98770	-72.33920	Alive	Captive then Released	84.0	12.80		3/19/2008	763
NY384908	<i>Pagophilus groenlandicus</i>	F	YE	3/21/2008	40.67100	-73.04220	Fresh Dead	RFMRP	27.60		6/3/2008		
NY385008	<i>Halichoerus grypus</i>	M	PU	3/21/2008	40.58304	-73.65373	Alive - Died on the Beach	RFMRP	101.0	19.50	3/22/2008		
NY385108	<i>Phoca vitulina</i>	M	YE	3/22/2008	40.58660	-73.53390	Alive	Captive then Released	108.9	26.70		4/26/2008	780
NY385208	<i>Pagophilus groenlandicus</i>	F	YE	3/22/2008	41.05513	-71.92857	Moderately Decomposed	RFMRP	17.00		4/10/2008		
NY385308	<i>Halichoerus grypus</i>	F	PU	3/23/2008	40.84660	-72.45570	Alive - Died in Captivity	RFMRP	98.5	18.20	3/25/2008		
NY385408	<i>Pagophilus groenlandicus</i>	M	YE	3/24/2008	41.12290	-72.27550	Fresh Dead	RFMRP	97.3	20.20	3/25/2008	3/24/2008	771
NY385508	<i>Halichoerus grypus</i>	F	PU	3/24/2008	40.97690	-72.09960	Alive	Captive then Released	97.9	14.10		3/24/2008	779
NY385608	<i>Halichoerus grypus</i>	M	PU	3/24/2008	40.73430	-72.85870	Alive	Captive then Released	102.2	17.50		4/26/2008	779
NY385808	<i>Phoca vitulina</i>	M	AD	3/27/2008	41.03500	-71.93280	Moderately Decomposed	RFMRP	162.0	83.30	3/29/2008		
NY385908	<i>Halichoerus grypus</i>	F	PU	3/29/2008	40.87450	-72.37490	Alive	Captive then Released	100.6	20.30		6/14/2008	792
NY386008	<i>Halichoerus grypus</i>	M	PU	3/29/2008	40.82180	-72.54440	Alive	Captive then Released	91.5	16.80		5/11/2008	786
NY386108	<i>Pagophilus groenlandicus</i>	M	YE	3/30/2008	40.84110	-72.47910	Alive - Died in Captivity	RFMRP	107.4	22.20			
NY386308	<i>Pagophilus groenlandicus</i>	M	YE	4/3/2008	40.76910	-72.74230	Moderately Decomposed	RFMRP	108.9	25.70	9/24/2008		
NY386408	<i>Halichoerus grypus</i>	M	PU	4/4/2008	41.03418	-71.93736	Alive	Captive then Released	101.1	22.00		5/17/2008	784
NY386508	<i>Halichoerus grypus</i>	M	PU	4/5/2008	40.76796	-72.74257	Alive	Captive then Released	99.6	21.10		6/21/2008	789
NY386608	<i>Halichoerus grypus</i>	F	PU	4/5/2008	40.72332	-72.89134	Alive	Captive then Released	96.1	18.60		5/31/2008	787
NY386708	<i>Pagophilus groenlandicus</i>	F	YE	4/6/2008	40.58570	-73.62190	Alive - Died in Captivity	RFMRP	99.0	18.40	9/24/2008		
NY386808	<i>Pagophilus groenlandicus</i>	M	YE	4/7/2008	41.10760	-72.35470	Alive	Captive then Released	106.5	32.00	5/17/2008	4/7/2008	773
NY386908	<i>Pagophilus groenlandicus</i>	M	YE	5/17/2008	40.62620	-72.53910	Very Decomposed	RFMRP	116.2	26.80	5/19/2008		773
NY386908	<i>Halichoerus grypus</i>	F	PU	4/7/2008	40.81082	-72.58314	Alive	Captive then Released	101.3	16.80		7/12/2008	794
NY387008	<i>Halichoerus grypus</i>	F	PU	4/7/2008	40.64160	-73.16800	Alive	Captive then Released	90.4	19.50		6/7/2008	785
NY387208	<i>Phoca vitulina</i>	M	YE	4/9/2008	40.62110	-73.29800	Moderately Decomposed	RFMRP	98.8	16.10	5/21/2008		
NY387308	<i>Halichoerus grypus</i>	F	PU	4/9/2008	40.59420	-73.50370	Alive	Captive then Released	104.4	27.80		6/7/2008	788
NY387408	<i>Halichoerus grypus</i>	M	PU	4/10/2008	40.64251	-73.16168	Alive	Captive then Released	104.1	24.80		4/10/2008	774
NY387508	<i>Phoca vitulina</i>	U	YE	4/12/2008	40.75370	-72.93340	Very Decomposed	RFMRP					
NY387608	<i>Pagophilus groenlandicus</i>	F	YE	4/12/2008	40.94429	-73.49867	Moderately Decomposed	RFMRP	105.2	29.40	5/21/2008		
NY387708	<i>Halichoerus grypus</i>	M	PU	4/12/2008	40.92690	-72.23940	Moderately Decomposed	RFMRP	17.40		9/24/2008		
NY387808	<i>Halichoerus grypus</i>	F	PU	4/13/2008	40.94480	-72.18940	Alive	Captive then Released	101.3	20.00		7/8/2008	793
NY387908	<i>Phoca vitulina</i>	M	AD	4/13/2008	40.80820	-72.66430	Moderately Decomposed	RFMRP	136.0	63.00			
NY388008	<i>Pagophilus groenlandicus</i>	F	YE	4/14/2008	40.52633	-73.29390	Moderately Decomposed	RFMRP			9/10/2008		
NY388108	<i>Pagophilus groenlandicus</i>	U	YE	4/15/2008	40.62688	-73.36271	Very Decomposed	RFMRP	105.0	9.20	9/24/2008		
NY388308	<i>Halichoerus grypus</i>	M	PU	4/17/2008	40.73500	-72.85620	Alive	Captive then Released	99.5	19.40		6/28/2008	790
NY388508	<i>Halichoerus grypus</i>	M	PU	4/18/2008	40.62680	-73.28210	Alive	Captive then Released	101.6	23.50		4/18/2008	778
NY388608	<i>Phoca vitulina</i>	M	PU	4/18/2008	40.92751	-73.31788	Moderately Decomposed	RFMRP	77.0	6.40			
NY388708	<i>Phoca vitulina</i>	M	AD	4/22/2008	40.73690	-72.85833	Moderately Decomposed	RFMRP	144.0	52.10	4/27/2008		
NY388808	<i>Phoca vitulina</i>	F	YE	4/23/2008	41.08489	-71.90112	Moderately Decomposed	RFMRP	92.3	11.80	4/27/2008		
NY389008	<i>Pagophilus groenlandicus</i>	F	YE	4/26/2008	40.73670	-72.86310	Moderately Decomposed	RFMRP	105.8	18.10	4/27/2008		
NY389108	<i>Phoca vitulina</i>	M	YE	4/29/2008	40.53500	-74.13330	Very Decomposed	RFMRP	93.7	21.00	5/15/2008		
NY389808	<i>Phoca vitulina</i>	M	YE	5/1/2008	40.97650	-72.53290	Moderately Decomposed	RFMRP			5/30/2008		
NY389908	<i>Phoca vitulina</i>	M	AD	5/2/2008	41.04408	-72.31797	Very Decomposed	RFMRP			5/4/2008		
NY390008	<i>Halichoerus grypus</i>	F	PU	5/2/2008	40.96390	-72.13760	Alive	Captive then Released	105.9	25.00		5/2/2008	782
NY390108	<i>Halichoerus grypus</i>	M	PU	5/4/2008	40.59710	-73.48440	Alive - Died in Captivity						

Appendix 2.0. Sea turtle summary for January through December 2008.

ID	SP	SEX	DATE	LAT	LON	COND	WT	LTOT	NECR_DATE
NY380708	Unknown	U	1/20/2008	40.847100	-72.466800	Very Decomposed	18.2	CBD	
NY381808	<i>Phocoena phocoena</i>	M	2/9/2008	40.627620	-73.299610	Moderately Decomposed	18.2	118.40	
NY382608	<i>Phocoena phocoena</i>	M	2/27/2008			Alive Died in Captivity	19.9	111.00	2/28/2008
NY382908	<i>Phocoena phocoena</i>	M	3/2/2008	41.045300	-72.341740	Alive Died on Beach	22.4	127.00	3/3/2008
NY383308	<i>Delphinus delphus</i>	M	3/9/2008	40.993760	-72.048620	Moderately Decomposed	135	218.60	3/10/2008
NY384308	<i>Lagenorhynchus acutus</i>	F	3/18/2008	40.906050	-73.221820	Fresh Dead	39.4	155.00	3/18/2009
NY384708	<i>Tursiops truncatus</i>	F	3/19/2008	40.907900	-72.286100	Moderately Decomposed	173	260.00	3/26/2008
NY384808	<i>Phocoena phocoena</i>	M	3/19/2008	40.602500	-73.514100	Moderately Decomposed	19.6	117.00	5/22/2008
NY385708	<i>Tursiops truncatus</i>	M	3/26/2008	40.583330	-73.700570	Moderately Decomposed	100	208.30	3/31/2008
NY386208	<i>Phocoena phocoena</i>	F	3/30/2008	40.606230	-73.440260	Very Decomposed	CBD	112.00	4/1/2008
NY387108	<i>Phocoena phocoena</i>	M	4/9/2008	41.052290	-71.874300	Very Decomposed	CBD	135.00	5/15/2008
NY388208	Unknown	M	4/15/2008	40.828600	-73.654000	Moderately Decomposed	108	213.00	6/9/2008
NY388408	Unknown	U	4/17/2008	40.788370	-72.665380	Skeleton	CBD	CBD	
NY388908	<i>Phocoena phocoena</i>	M	4/24/2008	40.977700	-72.530500	Very Decomposed	20	115.40	4/27/2008
NY389108	<i>Phocoena phocoena</i>	F	4/27/2008	40.972700	-72.112300	Moderately Decomposed	CBD	131.80	4/27/2008
NY389208	<i>Globicephala melas</i>	M	4/28/2008	40.827300	-72.527300	Moderately Decomposed	361	282.00	4/29/2008
NY389308	<i>Globicephala melas</i>	F	4/28/2008	40.919600	-72.257400	Moderately Decomposed	680	755.00	4/30/2008
NY389408	<i>Phocoena phocoena</i>	F	4/28/2008	40.583460	-73.814460	Moderately Decomposed	42.1	162.00	5/29/2008
NY389508	<i>Globicephala melas</i>	M	4/29/2008	40.586000	-73.617000	Very Decomposed	CBD	193.00	4/30/2008
NY389708	<i>Tursiops truncatus</i>	M	4/29/2008	40.773900	-72.720400	Fresh Dead	333	283.00	5/1/2008
NY390208	<i>Tursiops truncatus</i>	M	5/5/2008	41.002900	-72.022800	Moderately Decomposed	322.5	293.00	5/7/2008
NY390308	<i>Globicephala melas</i>	M	5/5/2008	41.031070	-71.945600	Very Decomposed	CBD	405.00	5/6/2008
NY390508	<i>Phocoena phocoena</i>	M	5/8/2008	40.870100	-73.787600	Very Decomposed	CBD	CBD	5/15/2008
NY390608	<i>Globicephala melas</i>	F	5/11/2008	40.592200	-73.510300	Very Decomposed	CBD	CBD	
NY390708	<i>Lagenorhynchus acutus</i>	F	5/13/2008	40.550190	-73.925220	Very Decomposed	CBD	175.00	
NY390908	<i>Delphinus delphus</i>	M	6/5/2008	40.870600	-72.385700	Very Decomposed	111.6	233.00	6/6/2008
NY391408	<i>Delphinus delphus</i>	M	6/24/2008	40.998770	-72.034070	Alive Died in Captivity	105	201.00	6/27/2008
NY391908	<i>Tursiops truncatus</i>	F	7/8/2008	40.635200	-73.194700	Moderately Decomposed	101.5	197.00	7/9/2008
NY392108	<i>Tursiops truncatus</i>	F	7/9/2008	40.566420	-73.866420	Moderately Decomposed	204	245.00	7/10/2008
NY392908	<i>Megaptera novaeangliae</i>	F	7/15/2008	40.992300	-72.103600	Moderately Decomposed	216	287.20	7/15/2008
NY393208	<i>Stenella Frontalis</i>	M	7/21/2008	40.999960	-72.030200	Moderately Decomposed	149.5	230.00	7/23/2008
NY394708	<i>Tursiops truncatus</i>	F	8/2/2008	40.583500	-73.707000	Very Decomposed	CBD	240.00	8/3/2008
NY397108	<i>Delphinus delphus</i>	F	9/18/2008	40.783300	-72.681200	Moderately Decomposed	64.2	205.00	9/21/2008
NY397308	Unknown	U	9/15/2008	40.585600	-73.611400	Very Decomposed	CBD	CBD	
NY397508	<i>Stenella coeruleoalba</i>	M	10/20/2008	41.000600	-72.275100	Very Decomposed	CBD	169.00	
NY398908	<i>Delphinus delphus</i>	U	11/30/2008	40.590590	-73.551520	Alive	CBD	CBD	
NY399008	<i>Delphinus delphus</i>	U	11/30/2008	40.590590	-73.551520	Alive	CBD	CBD	
NY399308	<i>Delphinus delphus</i>	F	12/3/2008	40.687300	-73.001400	Fresh Dead	53.8	203.00	12/7/2008
NY399408	<i>Stenella coeruleoalba</i>	M	12/3/2008	41.043000	-71.900500	Alive Died on Beach	89.1	202.00	12/5/2008
NY400308	<i>Phocoena phocoena</i>	M	12/22/2008	41.096050	-72.322020	Moderately Decomposed	24.6	114.20	2/26/2009
NY400708	<i>Delphinus delphus</i>	F	12/29/2008	41.016060	-72.245700	Fresh Dead	117.0	210.00	

Appendix 3.0. Cetacean summary for January through December 2008.

ID	SP	SEX	DATE	LAT	LON	COND	WT	LTOT	NECR_DATE
NY380708	Unknown	U	1/20/2008	40.847100	-72.466800	Very Decomposed	18.2	CBD	
NY381808	<i>Phocoena phocoena</i>	M	2/9/2008	40.627620	-73.299610	Moderately Decomposed	18.2	118.40	
NY382608	<i>Phocoena phocoena</i>	M	2/27/2008			Alive Died in Captivity	19.9	111.00	2/28/2008
NY382908	<i>Phocoena phocoena</i>	M	3/2/2008	41.045300	-72.341740	Alive Died on Beach	22.4	127.00	3/3/2008
NY383308	<i>Delphinus delphus</i>	M	3/9/2008	40.993760	-72.048620	Moderately Decomposed	135	218.60	3/10/2008
NY384308	<i>Lagenorhynchus acutus</i>	F	3/18/2008	40.906050	-73.221820	Fresh Dead	39.4	155.00	3/18/2009
NY384708	<i>Tursiops truncatus</i>	F	3/19/2008	40.907900	-72.286100	Moderately Decomposed	173	260.00	3/26/2008
NY384808	<i>Phocoena phocoena</i>	M	3/19/2008	40.602500	-73.514100	Moderately Decomposed	19.6	117.00	5/22/2008
NY385708	<i>Tursiops truncatus</i>	M	3/26/2008	40.583330	-73.700570	Moderately Decomposed	100	208.30	3/31/2008
NY386208	<i>Phocoena phocoena</i>	F	3/30/2008	40.606230	-73.440260	Very Decomposed	CBD	112.00	4/1/2008
NY387108	<i>Phocoena phocoena</i>	M	4/9/2008	41.052290	-71.874300	Very Decomposed	CBD	135.00	5/15/2008
NY388208	Unknown	M	4/15/2008	40.828600	-73.654000	Moderately Decomposed	108	213.00	6/9/2008
NY388408	Unknown	U	4/17/2008	40.788370	-72.665380	Skeleton	CBD	CBD	
NY388908	<i>Phocoena phocoena</i>	M	4/24/2008	40.977700	-72.530500	Very Decomposed	20	115.40	4/27/2008
NY389108	<i>Phocoena phocoena</i>	F	4/27/2008	40.972700	-72.112300	Moderately Decomposed	CBD	131.80	4/27/2008
NY389208	<i>Globicephala melas</i>	M	4/28/2008	40.827300	-72.527300	Moderately Decomposed	361	282.00	4/29/2008
NY389308	<i>Globicephala melas</i>	F	4/28/2008	40.919600	-72.257400	Moderately Decomposed	680	282.00	4/30/2008
NY389408	<i>Phocoena phocoena</i>	F	4/28/2008	40.583460	-73.814460	Moderately Decomposed	42.1	162.00	5/29/2008
NY389508	<i>Globicephala melas</i>	M	4/29/2008	40.586000	-73.617000	Very Decomposed	CBD	193.00	4/30/2008
NY389708	<i>Tursiops truncatus</i>	M	4/29/2008	40.773900	-72.720400	Fresh Dead	333	283.00	5/1/2008
NY390208	<i>Tursiops truncatus</i>	M	5/5/2008	41.002900	-72.022800	Moderately Decomposed	322.5	293.00	5/7/2008
NY390308	<i>Globicephala melas</i>	M	5/5/2008	41.031070	-71.945600	Very Decomposed	CBD	405.00	5/6/2008
NY390508	<i>Phocoena phocoena</i>	M	5/8/2008	40.870100	-73.787600	Very Decomposed	CBD	CBD	5/15/2008
NY390608	<i>Globicephala melas</i>	F	5/11/2008	40.592200	-73.510300	Very Decomposed	CBD	CBD	
NY390708	<i>Lagenorhynchus acutus</i>	F	5/13/2008	40.550190	-73.925220	Very Decomposed	CBD	175.00	
NY390908	<i>Delphinus delphus</i>	M	6/5/2008	40.870600	-72.385700	Very Decomposed	111.6	233.00	6/6/2008
NY391408	<i>Delphinus delphus</i>	M	6/24/2008	40.998770	-72.034070	Alive Died in Captivity	105	201.00	6/27/2008
NY391908	<i>Tursiops truncatus</i>	F	7/8/2008	40.635200	-73.194700	Moderately Decomposed	101.5	197.00	7/9/2008
NY392108	<i>Tursiops truncatus</i>	F	7/9/2008	40.566420	-73.866420	Moderately Decomposed	204	245.00	7/10/2008
NY392908	<i>Megaptera novaeangliae</i>	F	7/15/2008	40.992300	-72.103600	Moderately Decomposed	216	287.20	7/15/2008
NY393208	<i>Stenella Frontalis</i>	M	7/21/2008	40.999960	-72.030200	Moderately Decomposed	149.5	230.00	7/23/2008
NY394708	<i>Tursiops truncatus</i>	F	8/2/2008	40.583500	-73.707000	Very Decomposed	CBD	240.00	8/3/2008
NY397108	<i>Delphinus delphus</i>	F	9/18/2008	40.783300	-72.681200	Moderately Decomposed	64.2	205.00	9/21/2008
NY397308	Unknown	U	9/15/2008	40.585600	-73.611400	Very Decomposed	CBD	CBD	
NY397508	<i>Stenella coeruleoalba</i>	M	10/20/2008	41.000600	-72.275100	Very Decomposed	CBD	169.00	
NY398908	<i>Delphinus delphus</i>	U	11/30/2008	40.590590	-73.551520	Alive	CBD	CBD	
NY399008	<i>Delphinus delphus</i>	U	11/30/2008	40.590590	-73.551520	Alive	CBD	CBD	
NY399308	<i>Delphinus delphus</i>	F	12/3/2008	40.687300	-73.001400	Fresh Dead	53.8	203.00	12/7/2008
NY399408	<i>Stenella coeruleoalba</i>	M	12/3/2008	41.043000	-71.900500	Alive Died on Beach	89.1	202.00	12/5/2008
NY400308	<i>Phocoena phocoena</i>	M	12/22/2008	41.096050	-72.322020	Moderately Decomposed	24.6	114.20	2/26/2009
NY400708	<i>Delphinus delphus</i>	F	12/29/2008	41.016060	-72.245700	Fresh Dead	117.0	210.00	